



# Challenge Exam Information Sheet

## General Anatomy and Physiology

### Course Information

<i>Course # Title</i>	10-806-177 General Anatomy and Physiology
<i>Credits</i>	4
<i>Instructional Area</i>	Science
<i>Instructional Level</i>	Associate Degree
<i>Division</i>	General Studies

Click here [General Anatomy and Physiology COS](#) – Beginning to review the detailed course outcome summary for this course to determine if you are prepared to take this challenge exam.

### Challenge Exam Format

**Number/Format of Questions:** 150 questions  
 Questions 1-100 Format:  
 Read the question and select the best answer choice from the options provided.  
 Questions 101-150 Format:  
 Read the question(s) and then review the figure (image or diagram) and then select the best answer choice based on options provided.  
**Sample exam questions are provided below.**

**Passing Score:** 120 Points (80 Percent of Total Points)

**Time Allowed For Completion:** 3 hours

**Materials Allowed In Testing Room:** No resources are allowed for this exam. The challenge exam may only be taken once. No re-takes are allowed.

**When/How Results Will Be Available:** Results will be emailed to your Northwood Tech email account within one week of taking the exam.

## Challenge Exam Guidelines

**Understand that Challenge Exams are evaluative, rather than learning, experiences.** Results indicate only whether a student has earned credit for prior learning: pass or fail. No score is available, nor is a report of how a student performed on any piece of the exam.

- Prior to taking the challenge exam, you must:
  - ✓ be an admitted student.
  - ✓ pay a non-refundable fee of \$90.
- You may only attempt this Challenge Exam once in a 12-month period.
- The exam may be scheduled before or after the course begins, but must be completed within the first seven calendar days from the course start date.
- Reasonable accommodations for persons with disabilities will be made to ensure access to academic programs, activities, services and employment in accordance with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act (ADA), Amendments Act of 2008 (ADAA). Students with a documented disability must request accommodations by contacting the campus Accommodation Specialist and following required steps to obtain accommodations at the post-secondary level.
- If you are enrolled in the course and successfully complete the Challenge Exam, you will receive a 100 percent tuition refund for the course.

**NOTE:** A reduced credit load may affect your financial aid and/or insurance eligibility if you successfully complete a Challenge Exam. Please contact your advisor or the financial aid office for more information.

## Sample Exam Questions:

The test includes multiple choice and structural identification questions. Here are some sample questions for use as practice. The answers are provided at the end of the question set.

**Multiple Choice: Read the question. Select the best answer choice from the options provided.**

1. Which organic molecule has long hydrocarbon chains and is a major element of cell membranes?
  - a. Polypeptides
  - b. Carbohydrates
  - c. Phospholipids
  - d. Nucleotides
2. Which specialized cell of the skin produces pigment?
  - a. Keratinocyte
  - b. Melanocyte
  - c. Langerhans
  - d. Horny
3. In which structure do sperm mature after they are produced?
  - a. the prostate gland
  - b. the epididymis
  - c. the bulbourethral glands
  - d. the seminal vesicles
4. What hormone is important in milk production and maintaining lactation?
  - a. Estrogen
  - b. Oxytocin
  - c. Prolactin
  - d. Adrenaline
5. Which structure and its secretion are correctly matched?
  - a. prostate – fibrinolysin
  - b. bulbourethral gland – thick, acidic fluid
  - c. epididymis – testosterone
  - d. seminal vesicles – fructose
6. Which layer of the uterus is shed during menstruation?
  - a. Perimetrium
  - b. Myometrium
  - c. Endometrium
  - d. Ectometrium
7. Which of the following is a primary function of the glomerulus?
  - a. Filtration
  - b. Reabsorption
  - c. Secretion
  - d. Transport

8. Trace the flow of blood for a nephron.
  - a. peritubular capillaries, efferent arteriole, glomerulus, afferent arteriole
  - b. efferent arteriole, glomerulus, afferent arteriole, peritubular capillaries
  - c. afferent arteriole, glomerulus, efferent arteriole, peritubular capillaries
  - d. afferent arteriole, glomerulus, peritubular capillaries, efferent arteriole
9. Which type of tissue is in the image? (Figure 1)
  - a. Compact bone
  - b. Fibrocartilage
  - c. Smooth muscle
  - d. Simple squamous epithelial

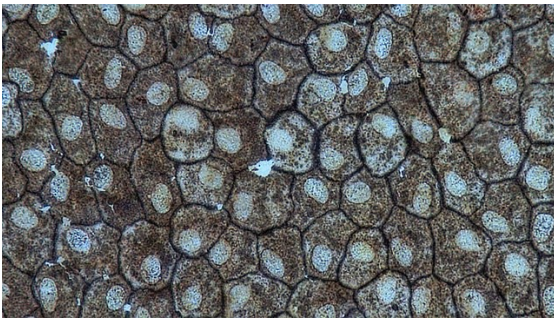


Figure 1

10. Which number in the diagram corresponds to the renal pelvis? (Figure 2)
  - a. 3
  - b. 7
  - c. 13
  - d. 14

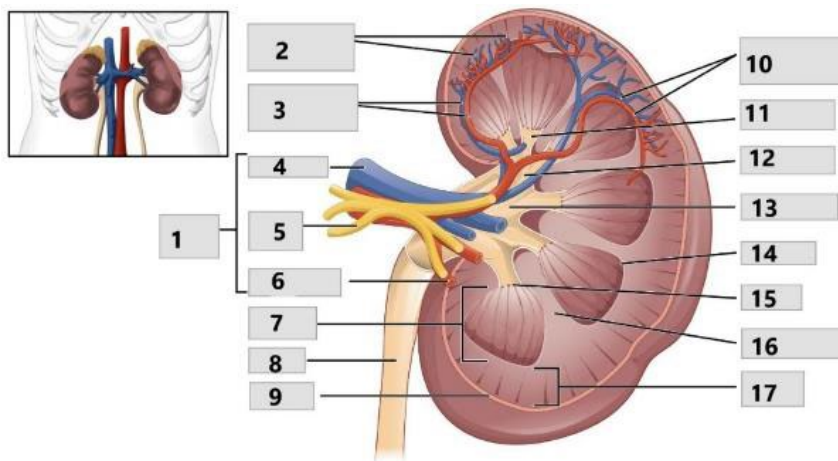


Figure 2

11. Which number represents the medulla oblongata? (Figure 3)

- a. 1
- b. 2
- c. 5
- d. 8

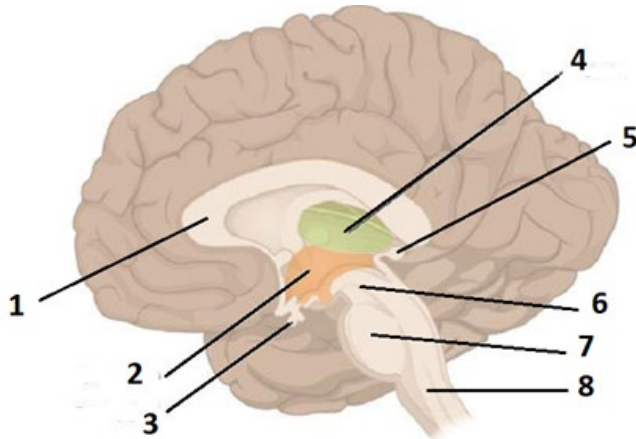


Figure 3

Sample Question Answers:

- |      |       |
|------|-------|
| 1. c | 7. a  |
| 2. b | 8. c  |
| 3. b | 9. d  |
| 4. c | 10. c |
| 5. d | 11. d |
| 6. c |       |

Image Citation:

Figure 1: " Epithelial Tissues Simple Squamous Epithelium (41722161301)." Berkshire Community College Bioscience Image Library, via Wikimedia Commons.

[https://commons.wikimedia.org/wiki/File:Epithelial\\_Tissues\\_Simple\\_Squamous\\_Epithelium\\_\(41722161301\).jpg](https://commons.wikimedia.org/wiki/File:Epithelial_Tissues_Simple_Squamous_Epithelium_(41722161301).jpg). Accessed 8 Apr. 2021. CC0.

Figure 2: "Figure 25.8 Left Kidney," *Anatomy & Physiology*, OpenStax, [https://openstax.org/books/anatomy-and-physiology/pages/25-3-gross-anatomy-of-the-kidney#fig-ch26\\_03\\_02](https://openstax.org/books/anatomy-and-physiology/pages/25-3-gross-anatomy-of-the-kidney#fig-ch26_03_02). Accessed 17 Mar. 2021. CC BY.

Figure 3: "Figure 13.11 The Diencephalon," *Anatomy & Physiology*, OpenStax, <https://openstax.org/books/anatomy-and-physiology/pages/13-2-the-central-nervous-system> Accessed 17 Mar. 2021.